

## Claims

1. Device for viewing an eye (7) of a patient, in particular a slit-lamp unit, comprising viewing means (5) for viewing a front section of the eye and illuminating means for illuminating the front section of the eye, characterized in that the illuminating means are designed in such a way that it is also possible to illuminate a rear section of the eye, and that the device comprises optical imaging means for imaging the rear eye section, and an image acquisition device for acquiring images of the eye with the aid of an image recording device, the image recording device being designed and capable of being positioned such that it is possible thereby to image the rear eye section without reflections ophthalmoscopically.
2. Device according to Claim 1, characterized in that the illuminating means comprise a light source for generating an illuminating beam, and can be switched over from background illumination to foreground illumination.
3. Device according to Claim 1 or 2, characterized in that the image acquisition device comprises a deflecting device, it being possible to position the deflecting device in front of the eye such that a viewing beam emerging from the eye can be deflected through the image recording device.
4. Device according to one of Claims 1 to 3, characterized in that the illuminating means comprise a light source and form a unit with the image acquisition device, it being possible to deflect a viewing beam generated by the light source onto the eye by the deflecting device.
5. Device according to Claim 4, characterized in that the illuminating beam can be deflected onto the eye at a variable angle of incidence.

6. Device according to Claim 4 or 5, characterized in that the illuminating beam comprises a plurality of annularly arranged individual beams.
7. Device according to one of Claims 1 to 6, characterized in that the image acquisition device comprises a holder with a base and a carrier, the image recording device being fastened on the carrier, the base being connected moveably to the device, and the holder having guide means for displacing the carrier relative to the base.
8. Device according to Claim 7, characterized in that the guide means are of rail-type design, and the carrier can be displaced with the image recording device in a translatory fashion along the base in the direction of the eye.
9. Device according to one of Claims 1 to 8, characterized in that the image acquisition device comprises an image displaying device for displaying the images acquired by the image acquisition device.
10. Device according to Claim 9, characterized in that the image displaying device comprises a photographic camera, a video camera or a CCD camera.
11. Device according to one of Claims 1 to 10, characterized in that the optical imaging means for imaging the rear eye section are positioned near the eye.
12. Device according to one of Claims 1 to 11, characterized in that the image acquisition device is designed in such a way that it can be switched over between at least two magnifications.